## John Deere Power Systems

EXECUTIVE ORDER U-R-004-0362

New Off-Road

Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2009	9JDXL06.8104	6.8	Diesel	8000		
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter			Loaders, Tractor, Pump, Compressor, Generator Set, Other Industrial Equipment			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION		EXHAUST (g/kw-hr)					OF	PACITY (%	(a)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT		-	3.6	1.3	0.18	14	3	. 30

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this \_\_\_\_\_\_day of December 2008.

Annette Hebert, Chief

Mobile Source Operations Division

**Engine Model Summary Form** 

Engine category: Nonroad CI

EPA Engine Family: 9JDXL06.8104

Mfr Family Name: 350HAB

New Submission

Attachment P. 1 of 2

6088H7285B   6068H   18,8 kg/400   82,80g/400   71,4 kg/2400   576,9 tg/1500   119,3 3g/1500   60.3 kg/1500   18,0 5088H7285D   6068H   185,0 tg/2200   82,20g/2200   88,8 kg/2200   576,9 tg/1500   120,2 tg/1500   60.9 tg/1500   10,0 tg/1500   1	ssion Control Per SAE J1830
\$0.068HF285B	MEC SPL DOI, TC.C
S068H1285C   S068H   185.07@2400   S8.70@2400   57.32@1500   107.58@1500   55.44@1500   E8.008H7285C   S068H   185.07@2400   185.02@1600   S8.70@1600   N/A   N/A   E8.008H7285C   S068H   197.14@1600   115.00@1600   S8.70@1600   N/A   N/A   E8.008H7285C   S068H   202.02@2400   S8.70@1600   N/A   N/A   N/A   E8.008H7285C   S068H   202.02@2400   S8.70@1600   N/A   N/A   N/A   E8.008H7285C   S068H   197.14@1600   115.00@1600   N/A   N/A   N/A   N/A   N/A   E8.008H7585C   S068H   197.14@1600   115.70@1600   N/22@1600   N/A	M EC SPL
S008HPZ8SK   S008H   195.07@2200   82.90@2200   589.40@2200   578.91@1500   120.2@1500   60.81@1500   E1.8008HPZ8SK   S008H   197.14@1500   115.50@1500   70.33@1800   NJA   NJA   NJA   E1.8008HPZ8SL   5008H   200.20@2400   101.10@2400   81.80@2400   557.53@1700   118.5@1700   88.00@1700   E1.8008HPS8S   5008H   197.14@1500   115.0@1500   83.87@1800   NJA   NJA   NJA   E1.8008HPS8S   5008H   197.14@1500   173.80@1800   70.33@1800   NJA   NJA   NJA   E1.8008HPS8S   5008H   197.14@1800   173.80@1800   70.35@1800   NJA   NJA   NJA   E1.8008HPS8S   5008H   197.14@1800   173.80@1800   70.35@1800   NJA   NJA   NJA   E1.8008HPC28A   5008H   198.08@2300   580.00@2300   78.00@2300   78.80@1800   NJA   NJA   NJA   E1.8008HPC28A   5008H   198.20@2300   580.00@2300   78.00@1800   NJA   NJA   NJA   E1.8008HPC28A   5008H   199.82@2350   98.00@2350   78.40@2350   NJA   NJA   NJA   E1.8008HPC28A   5008H   199.82@2350   98.00@2350   78.40@2350   NJA   NJA   NJA   E1.8008HPC28B   5008H   199.82@2350   98.00@2350   78.64@2350   NJA   NJA   NJA   E1.8008HPC28B   5008H   199.82@2350   98.00@2350   78.64@2350   NJA   NJA   NJA   E1.8008HPC28B   5008H   199.82@2350   94.90@2400   77.80@2400   578.91@1500   120.8@1500   81.16@1500   E1.8008HPC28B   578.91@1500   120.8@1500   81.8008HPC28B   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500   578.91@1500	M EC SPL
CodeHFC28SL   GO68H   197.14@1800   115.90@1800   70.33@1800   N/A	M EC SPL
115.00@180	M EC SPL
6068HCQ82   6068H   200.20@2400   101.10@2400   518.86@2400   557.53@1700   118.5@1700   68.06@1700   E	M EC SPL
BOBBHFERSI   BOBBH   237.37@1800   138.10@1800   70.35@1800   N/A	M EC SPL
4045H728EK 6058H 197.14@1800 173.80@1800 70.35@1800 N / A N / A F 9068HN055 6058H 189.09@2300 80.00@2300 73.00@2300 548.68@1500 97.4g1500 57.9g1500 E1 0088HFC28A 6088H 297.37@1760 140.80@1760 83.80@1760 N / A N / A N / A E1 6088HFC28B 8068H 199.82@2350 96.80@2350 77.45@2400 N / A N / A N / A E1 6088HFC28C 6088H 199.82@2350 96.80@2350 76.64@2350 N / A N / A N / A E1 6088HFC28C 6088H 197.14@2100 108.20@2100 75.27@2100 N / A N / A N / A E1 6088HFC28E 6088H 198.82@2400 94.90@2400 75.82@2400 578.91@1500 120.9@1500 81.18@1500 E1 6088HFC28E 6088H 198.82@2400 94.90@2400 75.88@2400 578.91@1500 120.9@1500 81.18@1500 E1	M EC SPL
4045HF28KK 6068H 199.082300 80.0092300 73.3691800 N/A N/A N/A EI 8068HH055 6068H 199.082300 80.0092300 73.0892300 548.88891500 97.491500 57.7991500 EI 6068HFC28A 6088H 237.37@1760 140.8091760 83.8091760 N/A N/A N/A II 61 6068HFC28B 8068H 199.8292400 85.8092400 77.4592400 N/A N/A N/A II 61 6068HFC28B 8068H 199.8292400 85.8092400 77.4592400 N/A N/A N/A II 61 6068HFC28D 6088H 199.8292350 86.8092350 N/A N/A N/A II 61 6068HFC28D 6088H 199.8292350 96.8092350 N/A N/A N/A II 61 6068HFC28D 6088H 199.8292350 96.8092350 N/A N/A N/A II 61 6068HFC28B 6068H 199.8292400 94.9092400 758.8992400 578.9191500 120.991500 81.1891500 EI 6068HFC28B 6068H 199.8292400 94.9092400 78.8992400 578.9191500 120.991500 81.1891500 EI	M EC SPL
8088HFC28A 6088H 297.37@1760 140.80@1760 83.80@1760 N / A N / A N / A E/ 6068HFC28B 6068H 199.82@2400 95.80@2400 77.46@2400 N / A N / A N / A E/ 6068HFC28B 6068H 199.82@2350 9 86.80@2350 N / A N / A N / A N / A E/ 6068HFC28D 6068H 197.14@2100 108.20@2100 75.27@2100 N / A N / A N / A E/ 6068HFC28E 6068H 199.82@2400 94.90@2400 76.88@2400 578.91@1500 120.8@1500 81.18@1500 E/ 6068HFC28E 6068H 199.82@2400 94.90@2400 76.88@2400 578.91@1500 120.8@1500 81.18@1500 E/ 6068HFC28E 6068H 199.82@2400 94.90@2400 76.88@2400 578.91@1500 120.8@1500 81.18@1500 E/ 6068HFC28E 6068H 199.82@2400 94.90@2400 76.88@2400 578.91@1500 120.8@1500 81.18@1500 E/ 6068HFC28E 6068H 199.82@2400 94.90@2400 76.88@2400 578.91@1500 120.8@1500 81.18@1500 E/ 6068HFC28E 6068H 199.82@2400 94.90@2400 76.88@2400 578.91@1500 120.8@1500 81.18@1500 E/ 6068HFC28E 6068H 199.82@2400 94.90@2400 76.88@2400 578.91@1500 120.8@1500 81.18@1500 E/ 6068HFC28E 6068H 199.82@2400 94.90@2400 76.88@2400 578.91@1500 120.8@1500 81.18@1500 E/ 6068HFC28E 6068H 199.82@2400 94.90@2400 76.88@2400 578.91@1500 120.8@1500 81.18@1500 E/ 6068HFC28E 6068H 199.82@2400 94.90@2400 94.90@2400 94.90@2400 578.91@1500 120.8@1500 81.18@1500 E/ 6068HFC28E 6068H 199.82@2400 94.90@2400 94	M EC SPL
6068HFC28B         6068H         199.82@2400         95.80@2400         77.45@2400         N/A         N/A         N/A         Electrical Beneficial Beneficia	M EC SPL
6068HFC28C       6088H       199.82@2350       96.80@2350       76.84@2350       N/A       N/A       N/A       EI         6088HFC28D       6088H       197.14@2100       108.20@2100       76.84@2360       N/A       N/A       N/A       N/A       II         0068HFC28E       6088H       199.82@2400       94.90@2400       76.88@2400       578.91@1500       120.9@1500       81.18@1500       EI	M EC SPL
6068HFC28C       6088H       199.82@2350       96.80@2350       76.84@2350       N/A       N/A       N/A       EI         6088HFC28D       6088H       197.14@2100       108.20@2100       76.84@2360       N/A       N/A       N/A       N/A       II         0068HFC28E       6088H       199.82@2400       94.90@2400       76.88@2400       578.91@1500       120.9@1500       81.18@1500       EI	M EC SPL
6068HFC28E 6068H 199.82@2400 94.90@2400 76.88@2400 578.91@1500 120.8@1500 81.18@1500 E)	M EC SPL
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**Engine Model Summary Form** 

Manufacturer:

Engine category:

Nonroad Cl 9JDXL06.8104

EPA Engine Family: Mfr Family Name:

Process Code:

350HAB

Running Change

U-R-004-0362

Attachment P. 2 of 2

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	mm/stroke @ peak HP (for diesel only)	(lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
6068HE050	6068H	199.82@2400	92.60@2400	74.94@2400	578.91@1500	119.33@1500	60.39@1500	EM EC SPL
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		17. grapinas da 17.						